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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	Feb 24	PCTGEN now available on STN
NEWS 4	Feb 24	TEMA now available on STN
NEWS 5	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS 6	Feb 26	PCTFULL now contains images
NEWS 7	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 8	Mar 24	PATDPAFULL now available on STN
NEWS 9	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS 10	Apr 11	Display formats in DGENE enhanced
NEWS 11	Apr 14	MEDLINE Reload
NEWS 12	Apr 17	Polymer searching in REGISTRY enhanced
NEWS 13	SEP 09	CA/CAplus records now contain indexing from 1907 to the present
NEWS 14	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS 15	Apr 28	RDISCLOSURE now available on STN
NEWS 16	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS 17	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS 18	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 19	May 19	Simultaneous left and right truncation added to WSCA
NEWS 20	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS 21	Jun 06	Simultaneous left and right truncation added to CBNB
NEWS 22	Jun 06	PASCAL enhanced with additional data
NEWS 23	Jun 20	2003 edition of the FSTA Thesaurus is now available
NEWS 24	Jun 25	HSDB has been reloaded
NEWS 25	Jul 16	Data from 1960-1976 added to RDISCLOSURE
NEWS 26	Jul 21	Identification of STN records implemented
NEWS 27	Jul 21	Polymer class term count added to REGISTRY
NEWS 28	Jul 22	INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS 29	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS 30	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 31	AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS 32	AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS 33	AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS 34	AUG 15	TEMA: one FREE connect hour, per account, in September 2003
NEWS 35	AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS 36	AUG 18	Simultaneous left and right truncation added to PASCAL

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NEWS 37  AUG 18  FROSTI and KOSMET enhanced with Simultaneous Left and Right
                 Truncation
NEWS 38  AUG 18  Simultaneous left and right truncation added to ANABSTR

NEWS EXPRESS  April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
              MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
              AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS    STN Operating Hours Plus Help Desk Availability
NEWS INTER    General Internet Information
NEWS LOGIN    Welcome Banner and News Items
NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
NEWS WWW      CAS World Wide Web Site (general information)

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FILE COVERS 1907 - 16 Sep 2003  VOL 139 ISS 12
FILE LAST UPDATED: 15 Sep 2003  (20030915/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> s sulfide
        288001 SULFIDE
         80256 SULFIDES
L1      318369 SULFIDE
                (SULFIDE OR SULFIDES)

=> s (pyridylazo or nitrosoaminophenol)
          4011 PYRIDYLAZO
             1 PYRIDYLAZOS
```

```
          4011 PYRIDYLAZO
                 (PYRIDYLAZO OR PYRIDYLAZOS)
            10 NITROSOAMINOPHENOL
             1 NITROSOAMINOPHENOLS
            10 NITROSOAMINOPHENOL
                 (NITROSOAMINOPHENOL OR NITROSOAMINOPHENOLS)
L2          4021 (PYRIDYLAZO OR NITROSOAMINOPHENOL)

=> s l1 (p) l2
L3            16 L1 (P) L2

=> d l3 kwic 1-16

L3   ANSWER 1 OF 16  CAPLUS  COPYRIGHT 2003 ACS on STN
AB   . . . and either one of the ingredients set forth at (1) and (2): (1)
     an ingredient which is selected from alkali sulfide, alkali
     hydrogen sulfide, and the mixt. thereof; and (2) a chelate agent
     which contains at least .alpha.-benzoinoxime, diethyldithiocarbamic acid,
     cupferron, xanthogenic acid, neocupferron, beryllon II, .beta.-quinolinol,
     1,1,1-trifluoro-3(2-thenoyl)acetone, dimethylglyoxime, and 1-(2-
     pyridylazo)-2-naphthol.

L3   ANSWER 2 OF 16  CAPLUS  COPYRIGHT 2003 ACS on STN
AB   The color of Ag(I)-5-Br-PADAP (2-(5-bromo-2-pyridylazo)-5-
     diethylaminophenol) complex is faded by sulfide in a NaOAc-HOAc
     buffer soln. (pH 5.3-6.6) in the presence of Na dodecyl sulfate. The
     apparent molar absorptivity of the. . . 1.2 .times. 105 L mol-1 cm-1,
     and the degree of decoloring of the complex was proportional to the concn.
     of sulfide at 0-5 .mu.g/25 mL. The proposed method was applied
     to the detn. of sulfide in wastewater with satisfactory results.
IT   151-21-3, Sodium dodecyl sulfate, uses   7440-22-4D, Silver, 5-Br-PADAP
     complex, uses   14337-53-2D, 2-(5-Bromo-2-pyridylazo
     )-5-diethylaminophenol, silver complex
     RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
        (spectrophotometric detn. of sulfide by decoloring reaction
        of silver(I)-5-Br-PADAP-SDS system)

L3   ANSWER 3 OF 16  CAPLUS  COPYRIGHT 2003 ACS on STN
AB   A method is proposed for extn. of Pd(II) from salicylate soln. using
     triphenylphosphine sulfide as an extractant. Palladium(II) was
     detd. in the org. phase spectrophotometrically with 1-(2-
     pyridylazo)-2-naphthol. Log-log plots show the probable extd.
     species to be Pd(Hsal)2.TPPS. The method was successfully applied for the
     sepn. of palladium(II). . .
IT   54-21-7, Sodium salicylate   85-85-8, 1-(2-Pyridylazo
     )-2-naphthol
     RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
        (in extn. and spectrophotometric detn. of palladium(II) using
        triphenylphosphine sulfide)

L3   ANSWER 4 OF 16  CAPLUS  COPYRIGHT 2003 ACS on STN
AB   . . . papers impregnated with 1% dimethylglyoxime, 1% 8-quinolinol,
     satd. rebeanic acid, 0.1% p-dimethylaminobenzylidenerhodanine, 0.05%
     benzidine, 0.2% bismuthiol II, 0.1% p-nitrosodimethylaniline, 0.1% 1-(2-
     pyridylazo)-2-naphthol, 1% Na diethyldithiocarbonate, and 0.1%
     ascorbic acid soln. were used. Metal ions were sepd. by combining these
     papers and the. . . sepn. into individual metal ions was not possible.
     Individual metal ion sepn. was achieved based on the solubilities of metal
     sulfides and the formation of a metal complex. The time necessary
     for the sepn. was .apprx.1 h. The metal ions were detected from the
     colors of either their sulfide or metal complex. Separable
     ranges were: Au(III) 0.25-1.0, Ir(IV) 0.2-1.5, Pd(II) 0.3-1.8, Pt(IV)
     0.6-2.2, Rh(III) 0.45-1.2, and Ru(III) 0.3-0.7 .mu.g.. . .
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L3 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
TI 1-(2-**Pyridylazo**)-2-naphthol as an agent for the determination of cyanide and **sulfide**

L3 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
TI The determination of trace amounts of rare-earth activators in rare-earth oxide **sulfide** phosphors by high pressure liquid chromatography and a 4-(2-**pyridylazo**)resorcinol spectrophotometric detection
AB The detn. of trace amts. of Tb and Ce in luminescent phosphors, such as La, Gd, or Y oxide-**sulfides** is described. Anal. was carried out by high-pressure liq. chromatog. Isocratic and gradient elution sepn. of the lanthanides was performed. . . The detn. of small amts. of some activators and coactivators, such as Tb and Ce in several rare earth oxide **sulfide** phosphors is described, in which a HCl soln. was eluted through a stainless steel column packed with microparticulate SiO2, bonded with cation-exchange groups. Detection is performed by means of a UV-visible detector, with post-column complex formation with 4-(2-**pyridylazo**)resorcinol monosodium salt (PAR). The spectrophotometric measurements were carried out at 510 nm. Results obtained on test solns. and industrially produced. . .

L3 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
AB . . . phosphors were carried out by gradient elution with 2-hydroxyisobutyric acid. The detn. of small amts. of Tb in Gd oxide **sulfide** phosphors is described in which an HCl soln. was eluted through a stainless steel column packed with microparticulate silica, with. . . bonded cation-exchange groups. Complete sepn. of Gd was achieved. Detection was with a variable-wavelength detector following post-column complex formation with 4-(2-**pyridylazo**)resorcinol mono-Na salt. Good reproducibility and sensitivity was obtained.

L3 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
AB A method was developed for detg. In in salts and **sulfide** ores by extn. of a 1:1 complex of In(OH)2+ with 6-(2-**pyridylazo**)-4-cyclohexylresorcinol (H2L) from a NH4OAc buffer (pH 5) into 7:3 CHCl3-isoamyl alc. (partition coeff. 18.64) and measuring its absorbance at 560. . .

L3 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
AB . . . sol. in aq.-org. mixts. have a similar color. In all cases the Co-reagent ratio is 1:2. Two of the reagents, 1-(2-**pyridylazo**)-2-naphthol and 1-(2-thiazolylazo)-2-naphthol, were used for the extn.-photometric detn. of Co in NH4Cl crystals activated with Co, in Hg[Co(CO)4]2, and in a **sulfide** ore.

L3 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
AB Tl(III) was detd. semiquant. by paper chromatog. with MeCOPr as developing solvent and (NH4)2SO4 or 1-(2-**pyridylazo**)-2-naphthol solns. as the detection reagent. The Tl(III) band size or color intensity can be correlated with the amt. of Tl(III). The method can be used to det. Tl in **sulfide**, sulfate, and silicate minerals and in Mn oxides; the detection limit is 4 ppm Tl.

L3 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
AB . . . and Sn group (As3+, Sb3+). The groups were developed with M NH4Cl and N HCl, resp., and detd. with ammonium **sulfide** + 4-(2-**pyridylazo**)-resorcinol, and ammonium **sulfide** + Pd chloride reagent, resp. Rf values are: Hg2+ 0.04, Bi3+ 0.11, Cd2+ 0.52, Cu2+ 0.27, Pb2+ 0.47, As3+ 0.84,. . .

L3 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
AB Photometric methods are proposed for the detn. of trace impurities and

alloying components in single crystals of Cd and Zn **sulfides** and selenides. The **sulfides** were dissolved in 6M HCl and the selenides in H2SO4 in the presence of Br. The resulting solns. were evapd.. . . and the basic sulfates and oxides with NH4OH buffer. The anions were detd. photometrically as Cd and Zn complexes with 1-(2-**pyridylazo**)-2-naphthol after extn. with CHCl3.

L3 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
AB . . . with iso-PrOH. Reext. In from the org. layer with 2 portions of H2O, add to the aq. layer 1 ml. 4-(2-**pyridylazo**)-resorcinol and 2 ml. NH4OAc soln., and det. the absorbance of the complex. Evap. the aq. soln. after In extn. to. . . ml. 0.25% Na2S and heat to 70.degree. for 2 hrs. Filter and wash with 1% NH4OH (pH 4), decomp. the **sulfides** in 1:1 HCl and 2-3 drops HNO3. To det. Cu, evap. to a syrup, add 4 ml. H2O and NH4OH. . .

L3 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
AB . . . .apprx.350 to pulp mill wastes with a B.O.D. of .apprx.25,000. Anal. and test procedures are also described. The reagent P.A.R., [(**pyridylazo**)-rescorcinol], reacts with Fe and other toxic metals. If it is found that the amt. of Fe is equal to the. . . a low rate system, 100 to 3 to 6. Small quantities of Na, K, Mg, Fe, Mn, Ca, chloride, and **sulfide** are also necessary for the development of the different kinds or organisms, a wide variety of which should be present.. . .

L3 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
AB To det. Cu, dissolve 5 g. of sample in HCl if a **sulfide** or in H2SO4 if a selenide. Ext. Cu at pH 2 with dithizone in CHCl3. Keep the aq. layer for. . . diphenylcarbazide. Det. Co in the aq. soln. from Cu sepn. by neutralizing with NH4OH to bromocresol blue, adding KlO4 and 1-(2-**pyridylazo**)-2-naphthol (PAN). Let stand 5 min., add 2 ml. 1:1 HCl, and ext. with CHCl3 after 5-10 min. Filter, and det.. . .

L3 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
AB cf. preceding abstr. Condensation of Pb(SPh)2 and 2-chloro-5-nitropyridine gives 5-nitro-2-pyridyl Ph **sulfide** (preceding abstr., Part III). A Pb salt of 2-mercapto-5-nitropyridine in this reaction easily gives 5,5'-dinitro-2,2'-dipyridyl **sulfide**, pale yellow needles, m. 137.degree.. Reduction of the above 2 **sulfides** gives 5-amino-2-pyridyl Ph **sulfide** (I), colorless, rhomboprisms, m. 122-3.degree., and 5,5'-diamino-2,2'-dipyridyl **sulfide** (II), resp. II gives a HCl salt, colorless rhomboprisms, decompg. 250-3.degree.. Coupling 2,6-diaminopyridine to the diazonium compds. of I, II, [4-p-H2NC6H4SCH2Ph (preceding abstr., Part. III)], and p-H2NC6H4SEt (Monier-Williams, J. Chem. Soc. 89, 278 (1906)), gives, resp., 2,6-diamino-3-(2-phenylmercapto-5-**pyridylazo**)pyridine, red rhomboprisms, m. 158-9.degree.; bis-[5-(2,6-diamino-3-**pyridylazo**)-2-pyridyl] **sulfide**, red, minute rhomboprisms, m. 145-7.degree.; 2,6-diamino-3-[p-ethylmercaptophenylazo)pyridine, yellow, flat rhomboprisms, m. 163.degree.; and 2,6-diamino-3-[p-benzylmercaptophenylazo)pyridine], orange, flat rhomboprisms, m. 166-8.degree..

=> d l3 2, 5, ibib, iabs

L3 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:278716 CAPLUS
DOCUMENT NUMBER: 128:303396
TITLE: Spectrophotometric determination of sulfide by decoloring reaction of silver(I)-5-Br-PADAP-SDS system
AUTHOR(S): Luo, Zongming; Yang, Shunan; Deng, Jianping